




TEST REPORT IEC 60884-1 Plugs and socket-outlets for household and similar purposes Part 1: General requirements	
Report Reference No.	MI15S0555775-01
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Total number of pages.....	34 (test report) + 15 (Attachment) + (6 Annexes)
CB Testing Laboratory	IMQ S.p.A.
Address.....	I - 20138 Milano - via Quintiliano, 43
Applicant's name	4BOX SRL
Address.....	piazzale Segesta 15 – 20148 Milano - Italy
Test specification:	
Standard	IEC 60884-1:2002 (Third Edition) + A1:2006
Test procedure.....	N/A
Non-standard test method.....	N/A
Test Report Form No.	IEC60884_1C
Test Report Form(s) Originator	IMQ
Master TRF	Dated 2006-10
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Test item description	fixed Socket-outlets
Trade Mark	 4BOX (logo)
Manufacturer.....	4BOX SRL – piazzale Segesta 15 – 20148 Milano - Italy
Model/Type reference.....	see description on page 5
Ratings.....	16 A 250 V ~ - 1 S.S. III CEE 7 + 2 P17/11 + 1 P17/11

Testing procedure and testing location:		
<input checked="" type="checkbox"/> CB Testing Laboratory:	IMQ S.p.A.	
Testing location/ address.....:	I - 20138 Milano - via Quintiliano, 43	
<input type="checkbox"/> Associated CB Test Laboratory:		
Testing location/ address.....:	-	
Tested by (name + signature)	Mascheroni V.	.....
Approved by (name + signature) .:	Mastrodomenico G.	.....
<input type="checkbox"/> Testing procedure: TMP		
Tested by (name + signature) .....	-	.....
Approved by (name + signature) .:	-	.....
Testing location/ address.....:	-	
<input type="checkbox"/> Testing procedure: WMT		
Tested by (name + signature) .....	-	.....
Witnessed by (name + signature):	-	.....
Approved by (name + signature) .:	-	.....
Testing location/ address.....:	-	
<input type="checkbox"/> Testing procedure: SMT		
Tested by (name + signature) .....	-	.....
Approved by (name + signature) .:	-	.....
Supervised by (name + signature):	-	.....
Testing location/ address.....:	-	
<input type="checkbox"/> Testing procedure: RMT		
Tested by (name + signature) .....	-	.....
Approved by (name + signature) .:	-	.....
Supervised by (name + signature):	-	.....
Testing location/ address.....:	-	

Summary of testing:

This test report refers to partial tests concerning the following clauses and sub-clauses: 8; 9 (only for S.S. CEI 23-50 P17/11 single module); 10; 11; 12; 13; 16.3; 17; 18; 19; 20; 21; 22; 24; 25; 26; 27 and 28.

Throughout this report, the symbol “(*)” in the “Result - Remark” column and/or in the “Verdict” column refers to a requirement replaced or modified by Italian Standard CEI 23-50:2007+ V1:2008+ V2:2011. (see Attachment).

This test report consists of:

- Test Report IEC 60884-1:2002 (Third Edition) + A1:2006 + IT_ND IEC 60884-1C: 34 pages;
- Attachment to test Report IEC 60884-1 “Italian National Differences”: 15 pages;
- Annex 1 : S.S. P17/11 of Standard CEI 23-50:2007+ V1:2008+ V2:2011 (for 1 modules socket outlet): 2 pages
- Annex 2: Photographic documentation: 4 pages.

Tests performed (name of test and test clause):

partial test relevant to clauses : 8; 9 (only for P17/11 single module); 10; 11; 12; 13; 16.3; 17; 18; 19; 20; 21; 22; 24; 25; 26; 27 and 28.

Testing location:

IMQ S.p.A. - I - 20138 Milano - via Quintiliano, 43

Summary of compliance with National Differences:

Attachment **IT_ND_IEC60884_1C_II** to test report IEC 60884-1 Italian national differences, based on Standards CEI 23-50:2007 + V1:2008 + V2:2011.

Copy of marking plate (for example) :

16 /250 ~

SIDE 4B.AM.H21.XL



Test item particulars	Fixed socket-outlets
Standard Sheet	Non-standardized 1x S.S. III CEE 7 / 2xP17/11 CEI 23-50
Rated current (A) / Rated voltage (V)	16 A / 250 V
Degree of protection against access to hazardous parts and against harmful ingress of solid foreign objects	IP2X / IP4X / IP5X
Degree of protection against harmful ingress of water	IPX0 / IPX4 / IPX5
Provision for earthing	without earthing contact / with earthing contact
Method of connecting the cable	rewirable / non-rewirable
Type of cable	-
Nominal cross-sectional areas (mm ²)	-
Type of terminals	screw-type / screwless (rigid) / screwless (rigid and flexible)
Type of connections	soldered / welded / crimped / other
Socket-outlets:	
Degree of protection against electric shock ..	normal protection / increased protection
Existence of shutters	without shutters / with shutters
Method of application / mounting of the socket-outlet	surface-type / flush-type / semi-flush-type / panel type / architrave-type / portable type / table-type (single/multiple) / floor recessed type / appliance type
Method of installation	design A / design B
Intended for circuits where	a single earthing circuit provides protective earthing / electrical noise immunity is desired for the earthing circuit
Plugs:	
Class of equipment	0 / I / II
Possible test case verdicts:	
- test case does not apply to the test object.....: N/A	
- test object does meet the requirement.....: P (Pass)	
- test object does not meet the requirement.....: F (Fail)	
Testing	
Date of receipt of test item	05/11/2015 (samples sent by the applicant)
Date (s) of performance of tests	From 05/11/2015 up to 18/12/2015

General remarks:

The test results presented in this report relate only to the object tested.

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"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

Throughout this report the indication " N/C " is used to indicate that the test case applies to the test object but it has not been carried out.

Unless otherwise stated the uncertainties for the tests and measurements are evaluated in accordance with IMQ Operational Instruction IO-LAB-001 and IO-LAB-004.

The uncertainties evaluation has been carried out in accordance with IEC Guide 115 "Application of Uncertainty of measurement's to Conformity Assessment Activity in the Electrotechnical Sector" and IECCE CTL decision sheet DSH 251x.

Internal Procedure PI-037 ensures that the requirements for traceability of calibrations, of all test equipment requiring calibration, and calibration intervals are met.

General product information:

Fixed socket out-let, 3 modules with shutters.

The fixed socket outlet in question is composed of a body with two modules containing 1 socket outlet S.S. III CEE 7 and 2 socket outlet S.S. 2xP17/11 CEI 23-50, plus a single body of one module containing a socket S.S. 2xP17/11 CEI 23-50.the two bodies are joined by the front surface.

Non-standardized construction: 1x S.S. III CEE 7 / 2xP17/11 CEI 23-50 (2 modules).


standardized construction: 1x S.S. 1xP17/11 CEI 23-50 (1 module)

Description of fixed sockets compatible with supporting frames of various brands:

Type reference	Rated value	Colour
4B.L.H21.XL	16A 250 V	Anthracite
4B.N.H21.XL	16A 250 V	White
4B.NT.H21.XL	16A 250 V	Tec
4B.AM.H21.XL	16A 250 V	White
4B.V14.H21.XL	16A 250 V	White

Factory Location: Lumi Legend Electrical Co. LTD. – N° 18, Lane 239, Beihai Road, Jiangbei, Ningbo 315032, P.R. CHINA.

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
8	MARKING		
8.1	Accessories marked as follows:		
	- rated current (A)	16 A	P
	- rated voltage (V)	250 V	P
	- symbol for nature of supply	~	P
	- manufacturer's or responsible vendor's name	4b OX	P
	- type reference	4B.AM.H21.XL	P
	- symbol for degree of protection (first digit)		N/A
	- symbol for degree of protection (second digit)		N/A
	Socket-outlets with screwless terminals marked with the following:		
	- the length of insulation to be removed		N/A
	- an indication of the suitability to accept rigid conductors only (if any)		N/A
8.2	Symbols used: as required in the standard		
	Marking for the nature of supply placed next to the marking for rated current and rated voltage		P
8.3	Marking of fixed socket-outlets placed on the main part:		*
	- rated current, rated voltage and nature of supply		P
	- identification mark of the manufacturer or of the responsible vendor		P
	- length of insulation to be removed, if any		N/A
	- type reference		P
	Cover plates necessary for safety purposes and intended to be sold separately: marked with the manufacturer's or responsible vendor's name and type reference		N/A
	IP code, if applicable: marked so as to be easily discernible		N/A
	Fixed socket-outlets classified according to item b) of 7.2.5: identified by a triangle visible after installation unless they have an interface configuration different from that used in normal circuits		N/A
8.4	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible		N/A
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction		N/A
8.5	Neutral terminals: N		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Earthing terminals: [earth symbol]		P
	Markings not placed on screws or other easily removable parts		P
	Terminals for conductors not forming part of the main function of the socket-outlet:		
	- clearly identified unless their purpose is self evident, or		N/A
	- indicated in a wiring diagram fixed to the accessory		N/A
	Identification of such terminals may be achieved by:		
	- their being marked with graphical symbols according to IEC 60417-2 or colours and/or alphanumeric system, or		N/A
	- their being marked with their physical dimensions or relative location		N/A
8.6	Surface-type mounting boxes forming an integral part of socket-outlets having IP>20: IP code marked on the outside of its associated enclosure so as to be easily discernible		N/A
8.7	Indication of which position or with which special provision the declared IP of flush-type and semi-flush-type fixed socket-outlets having IP>X0 is ensured		N/A
8.8	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit		P
9	CHECKING OF DIMENSIONS (This paragraph refers only to socket outlets S.S. P17/11 with single body)		
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets and corresponding gauges, if any	P17/11 (see Annex 1)	P
	Insertion of plugs into fixed or portable socket-outlets ensured by their compliance with the relevant standard sheets		P
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2		P
9.2	It is not possible to engage a plug with:		
	- a socket-outlet having a higher voltage rating or a lower current rating;		P
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		P
	- a socket-outlet with earthing contact (plug for class 0 equipment).		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Engagement of a plug for class 0 or class I equipment with a socket-outlet designed to accept plugs for class II equipment, not possible		N/A
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		
	- 150 N (rated current $\leq 16\text{A}$);		P
	- 250 N (rated current $> 16\text{A}$)		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		P
9.3	Deviations from standard sheets made only if they provide technical advantage and do not affect the purpose and safety of accessories complying with standard sheet		N/A
10	PROTECTION AGAINST ELECTRIC SHOCK		*
10.1	Socket-outlets: live parts not accessible		P
	Live parts of plugs: not accessible when the plug is in partial or complete engagement with a socket-outlet		P
	Test with test probe B of IEC 61032		P
	Accessories with elastomeric or thermoplastic material: additional test carried out at $(35 \pm 2) ^\circ\text{C}$ with test probe 11 of IEC 61032 (75 N for 1 min)		P
	During the test: accessories not deform and no live parts accessible		P
	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 8: specimens not show deformation		P
10.2	Accessible parts (with exception of small screws and the like for fixing bases and covers or cover plates): made of insulating material		P
	Cover or cover plates of fixed socket-outlets and accessible parts of plugs and portable socket-outlets: made of metal if the requirements of 10.2.1 or 10.2.2 are fulfilled		N/A
10.2.1	Metal covers or cover plates protected by supplementary insulation made by insulating linings or insulating barriers		N/A
	Insulating linings or insulating barriers cannot be removed without being permanently damaged		N/A
	Insulating linings or insulating barriers cannot be replaced in an incorrect position and, if they are omitted, accessories are rendered inoperable or manifestly incomplete		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	There is no risk of accidental contact between live parts and metal covers or cover plates		N/A
10.2.2	Metal covers or cover plates automatically connected, through a low-resistance connection, to the earth during fixing		N/A
10.3	Contact between a pin of a plug and a live socket-contact of a socket-outlet not possible while any other pin is accessible		P
	Compliance checked by manual test and by means of gauges with tolerances as specified in table 2		P
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		P
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride: test carried out with a force of 75 N for 1 min		N/A
	Fixed socket-outlets provided with metal covers or cover plates: clearance of at least 2 mm required between a pin and a socket-contact when another pin(s) is(are) in contact with the metal covers or cover plates (mm)		N/A
10.4	External parts of plugs made of insulating material		N/A
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin		N/A
10.5	Shuttered socket-outlets: live parts not accessible, without a plug in engagement, with the gauges shown in figure 9 and 10		P
	Live contacts automatically screened when the plug is withdrawn		P
	Means cannot easily be operated by anything other than a plug and not depend upon parts which are liable to be lost		P
	Gauge of figure 9, applied to the entry holes corresponding to live contacts with a force of 20 N, for approximately 5 s, successively in three directions, does not touch live parts		P
	Steel gauge of figure 10, applied to the entry holes corresponding to live contacts with a force of 1 N for approximately 5 s, in three directions, does not touch live parts		P
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		P
10.6	Test plug inserted into the socket-outlet with a force of 150 N for 1 min		
	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	After this test: socket-outlet still comply with the requirements of clause 9		P
10.7	Socket-outlet with increased protection: live parts not accessible		P
	Test wire of 1 mm diameter (figure 10) applied with a force of 1 N on all accessible surfaces does not touch live parts		P
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		P
11	PROVISION FOR EARTHING		*
11.1	Earth connection made before the current-carrying contacts of the plug become live		P
	Current-carrying pins are separated before the earth connection is broken		P
11.2	Earthing terminals of rewirable accessories comply with clause 12		P
	Earthing terminals of the same size as the corresponding terminals for the supply conductors		P
	Earthing terminals of rewirable accessories: internal		P
	Additional external earthing terminal of fixed socket-outlets of size suitable for conductors of at least 6 mm ²		N/A
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		P
	Earthing contacts of fixed socket-outlets:		
	- fixed to the base, or		P
	- fixed to the cover (reliably connected to the earthing terminals; contact pieces silver plated or with adequate protection)		N/A
	Parts of earthing circuit in one piece or reliably connected by riveting, welding, or the like	riveting (socket outlet 2 modules) one piece (socket outlet 1 module)	P
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N/A
11.4	Socket-outlets, having an IP>X0, with enclosure of insulating material and more than one cable inlet, provided with:		N/A
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
11.6	Fixed socket-outlets according to item b) of 7.2.5: earthing socket contact and its terminal electrically separated from any metal mounting means or other exposed conductive parts which may be connected to the protective earthing circuit of the installation		N/A
12	TERMINALS AND TERMINATIONS		*
	All the test on terminals, with the exception of the tests of 12.3.11 and 12.3.12, made after the test of clause 16		P
12.1	General		
12.1.1	Rewirable fixed socket-outlets provided with screw-type terminals or with screwless terminals	screw terminals	P
	Rewirable plugs and portable socket-outlets provided with terminals with screw clamping		N/A
	Pre-soldered flexible conductors used: pre-soldered area outside the clamp area of screw-type terminals		N/A
	Clamping means of terminals: not serve to fix any other components		P
12.1.2	Non-rewirable accessories provided with soldered, welded, crimped or equally effective permanent connections (termination)		N/A
	Screwed or snap-on connections not used		N/A
	Connections made by crimping a pre-soldered flexible conductor not permitted		N/A
12.2	Terminals with screw clamping for external copper conductors		
12.2.1	Accessories provided with terminals which allows the proper connection of copper conductors as shows in table 3		P
	Rated current (A); type of accessories.....	16 A; fixed socket-outlet	—
	Type of conductor (rigid / flexible).....	rigid conductor	—
	Smallest / largest cross-sectional area (mm ²)	1,5 mm ² / 2,5 mm ²	—
	Diameter of the largest conductor (mm)	2,13 mm	—
	Figure of terminal	figure 3	—
	Minimum diameter D (minimum dimensions) of conductor space: required (mm); measured (mm) .	2,0 mm; 2,3 mm	P
12.2.2	Terminals allow the conductor to be connected without special preparation		P
12.2.3	Terminals have adequate mechanical strength		P
	Screws and nut for clamping the conductors have metric ISO thread or a comparable thread		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Screws not of soft metal such as zinc or aluminium		P
12.2.4	Terminals resistant to corrosion		P
12.2.5	Terminals clamp the conductor(s) without undue damage	<i>see appended table 12.2.5</i>	P
	During the test: conductor not slip out, no break near clamping unit and no damage		P
12.2.6	Terminals clamp the conductor reliably between metal surfaces	<i>see appended table 12.2.6</i>	P
	During the test: conductor not move noticeably		P
12.2.7	Terminals designed or placed that the conductor cannot slip out while the clamping screws or nuts are tightened	<i>see appended table 12.2.7</i>	P
	After the test: no wire of the conductor escaped from the clamping unit		P
12.2.8	Terminals not work loose from their fixing to accessories		P
	Torque test (screws and nuts tightened and loosened 5 times):		
	- rated current (A)	16 A	—
	- copper conductor of the largest cross-sectional area (mm ²) (table 3).....	2,5 mm ²	—
	- type of conductor (solid or stranded).....	rigid solid	—
	- torque (Nm) (table 6 or appropriate figures 2, 3 or 4)	0,8 Nm(table 6 and figure 3)	—
	During the test: terminals not work loose and show no damage		P
12.2.9	Clamping screws or nuts of earthing terminals: adequately locked against accidental loosening, not possible to loosen them without the aid of a tool		P
12.2.10	Earthing terminals: no risk of corrosion		P
	Body of brass or other metal no less resistant to corrosion		P
	The body is a part of a frame or enclosure of aluminium alloy: precautions are taken to avoid the risk of corrosion		N/A
12.2.11	Pillar terminals: distance <i>g</i> no less than the value specified in figure 2: required (mm); measured (mm)		N/A
	Mantle terminals: distance <i>g</i> no less than the value specified in figure 5: required (mm); measured (mm)		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
12.3	Screwless terminals for external copper conductors		N/A
13	CONSTRUCTION OF FIXED SOCKET-OUTLETS		
13.1	Socket-contact assembly: sufficient resilience		P
13.2	Socket-contact and pins of socket-outlets: resistant to corrosion		P
13.3	Insulating linings, barriers and the like: adequate mechanical strength		P
13.4	Socket-outlets constructed as to permit		
	- easy introduction and connection of the conductors in the terminals		P
	- easy fixing of the base to a wall or in a mounting box;		P
	- correct positioning of the conductors		P
	- adequate space between the underside of the base and the surface on which the base is mounted		P
	- adequate space between the underside of the base and the sides of the base and the enclosure (cover or box)		P
	Socket-outlets classified as design A: permit easy positioning and removal of the cover or cover plate, without displacing the conductors		P
13.5	Socket-outlets designed that full engagement of associated plugs is not prevented by any projection from their engagement face		P
	Gap between the engagement face of the socket-outlet and the plug: not exceed 1 mm		P
13.6	Covers provided with bushings for the entry holes for the pins: not possible to remove them from the outside or for them to become detached inadvertently from the inside when the cover is removed		N/A
13.7	Covers, cover-plates or parts of them intended to ensure protection against electric shock:		
	- held in place at two or more points by effective fixings		N/A
	- fixed by means of a single fixing, for example, by a screw, provided that they are located by another means (for example, by a shoulder)		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Fixings of covers or cover-plates of socket-outlets of design A serve to fix the base: there are means to maintain the base in position, even after removal of the covers or cover-plates		N/A
13.7.1	Covers or cover-plates whose fixings are of the screw-type:		
	Compliance checked by inspection only		N/A
13.7.2	Covers or cover-plates whose fixing is not dependent on screws and whose removal is obtained by applying a force in a direction approximately perpendicular to the mounting/supporting surface:		
	Compliance checked, when their removal may give access, with the standard test finger:		
	- to live parts: by the test of 24.14 (verification of the non-removal and the removal)		N/A
	- to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal and the removal)		N/A
	- only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal and the removal)		N/A
13.7.3	Covers or cover-plates the fixing of which is not dependent on screws and whose removal is obtained by using a tool, in accordance with the manufacturer's instructions given in an instruction sheet or in other documentation:		
	Compliance checked, when their removal may give access, with the standard test finger:		
	- to live parts: by the test of 24.14 (verification of the non-removal only)		N/A
	- to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal only)		N/A
	- only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal only)		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
13.8	Cover-plate intended for a socket-outlet with earthing contact: not interchangeable with a cover-plate intended for a socket-outlet without earthing contact		N/A
13.9	Surface-type socket-outlets: no free openings in their enclosures		N/A
13.10	Screws or other means for mounting the socket-outlet on a surface in a box or enclosure: easily accessible from the front		P
	Fixing means not serve any other fixing purpose		P
13.11	Multiple socket-outlets with a common base: provided with fixed links for the interconnection of the contacts in parallel		P
	Fixing of the links independent from the connection of the supply wires		P
13.12	Multiple socket-outlets, comprising separate bases: correct position of each base ensured		P
	Fixing of each base independent of the fixing of the combination to the mounting surface		P
13.13	Mounting plate of surface-type socket-outlets: adequate mechanical strength		N/A
13.14	Socket-outlets withstand the lateral strain imposed by equipment likely to be introduced into them		P
	Socket-outlets 16A 250V: test made 4 times with the socket-outlet turned through 90°, 5 N for 1 min (device shown in fig. 13)		P
	During the test: device not become disengaged from the socket-outlet		P
	After the test:		
	- no damage		P
	- socket-outlets comply with clause 22		P
13.15	Socket-outlets are not an integral part of lampholders		P
13.16	Surface-type socket-outlets having IP>20 are according to their IP classification when fitted with conduits or with sheathed cables and without a plug in engagement		N/A
	Surface-type socket-outlets having IPX4 and IPX5 have provision for opening a drain hole		N/A
	Socket-outlets with a drain hole: drain hole is not less than 5 mm in diameter, or 20 mm ² in area with a width and a length of not less than 3 mm : —		N/A
	Drain hole: effective		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel): —		N/A
13.17	Earthing pins: adequate mechanical strength		N/A
	Not solid pins: compliance checked by inspection and by the test of 14.2 made after the tests of clause 21		N/A
13.18	Earthing contacts and neutral contacts: locked against rotation and removable only with the aid of a tool, after dismantling the socket-outlet		P
13.19	Metal strips of the earthing circuit: no burrs which might damage the insulation of the supply conductors		N/A
13.20	Socket-outlets to be installed in a box: designed that the conductor ends can be prepared after the box is mounted in position, but before the socket-outlet is fitted in the box		P
13.21	Inlet openings: allow the introduction of the conduit or the sheath of the cable		N/A
	Surface-type socket-outlets:		
	- the conduit or sheath of the cable can enter at least 1 mm into the enclosure		N/A
	- inlet opening for conduit entries, or at least two of them if there are more than one, capable of accepting conduit sizes of 16, 20, 25 or 32 according to IEC 60423 or a combination of at least two of any of these sizes		N/A
	- inlet opening for cable entries capable of accepting cables having the dimensions specified in table 14 or be as specified by the manufacturer: rated current (A); Limits of external dimensions of cable min/max (mm):		N/A
13.22	Membranes (grommets) in inlet openings: reliably fixed and not displaced by the mechanical and thermal stresses occurring in normal use		N/A
	Test on membranes subjected to the ageing treatment specified in 16.1 and assembled in the accessories		
	Accessories placed at (40 ± 2) °C for 2 h. Force of 30 N applied for 5 s by test probe 11 of IEC 61032. During the test: no deformation		N/A
	Membranes likely to be subjected to an axial pull: axial pull of 30 N applied for 5 s. During the test: membranes not become detached		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test repeated with membranes not subjected to any treatment		N/A
13.23	Membranes in inlet openings: introduction of the cables into the accessory permitted when the ambient temperature is low		N/A
	Test on membranes not subjected to the ageing treatment specified in 16.1 and assembled in the accessories		
	Accessories kept at (-15 ± 2) °C for 2 h: possibility to introduce cables of the largest diameter through membranes		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
14	CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OUTLETS		N/A
15	INTERLOCKED SOCKET-OUTLETS		N/A
16	RESISTANCE TO AGEING, PROTECTION PROVIDED BY ENCLOSURES, AND RESISTANCE TO HUMIDITY		*
16.1	Resistance to ageing		
	Accessories are resistant to ageing		P
	Portable socket-outlets: test plug as specified in Clause 20 inserted into the socket-outlets		N/A
	Accessories subjected to a test in a heating cabinet at (70 ± 2) °C for seven days (168 h)		P
	After the tests, the specimens show:		
	- no crack visible with normal or corrected vision without additional magnification		P
	- no sticky or greasy material		P
	- no trace of cloth (forefinger pressed with 5 N)		P
	- no damage		P
	Portable socket-outlets: contact pressure of the contact assembly checked as specified in subclause 22.2 with the single-pin gauge		N/A
16.2	Protection provided by enclosures		
	Enclosures provide a degree of protection in accordance with the IP designation of the accessory		P
16.2.1	Protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		

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Clause	Requirement + Test	Result - Remark	Verdict
	Accessories and their enclosures provide a degree of protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		P
	Fixed socket-outlets: mounted as in normal use on a vertical surface		P
	Flush-type and semi-flush type socket-outlets: mounted in an appropriate box according to the manufacturer's instructions		P
	Accessories with screwed glands or membranes fitted with flexible cables within the range specified in table 3:		
	- largest cross-sectional area (mm ²); type of cable (table 17)	-	—
	- smallest cross-sectional area (mm ²); type of cable (table 17)	-	—
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 24.6 (Nm)	-	—
	Screws of the enclosure tightened with a torque equal to 2/3 of the torque given in table 6 (Nm) ...	-	—
16.2.1.1	Protection against access to hazardous parts		
	Appropriate test performed as specified in IEC 60529 (see also clause 10)	IP20	P
16.2.1.2	Protection against harmful effects due to ingress of solid foreign objects		
	Appropriate test performed as specified in IEC 60529	IP20	P
	Test on accessories with IP5X (considered to be of category 2): dust not penetrated in a quantity to interfere with satisfactory operation or to impair safety		N/A
16.2.2	Protection against harmful effects due to ingress of water		N/A
16.3	Resistance to humidity		
	Accessories proof against humidity which may occur in normal use		P
	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %		P
	Specimens kept in the cabinet for:		
	- two days (48 h) for accessories having IPX0		P
	- seven days (168 h) for accessories having IP>X0		N/A
	After this treatment the specimens show no damage		P

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Clause	Requirement + Test	Result - Remark	Verdict
17	INSULATION RESISTANCE AND ELECTRIC STRENGTH		*
17.1	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 17.1	P
17.2	Electric strength: a.c. test voltage applied for 1 min	See appended table 17.2	P
18	OPERATION OF EARTHING CONTACTS		*
	Earthing contacts provide adequate contact pressure and not deteriorate in normal use		P
	Compliance checked by the tests of clauses 19 and 21		P
19	TEMPERATURE RISE (S.S. III CEE 7)		
	Temperature rise test	See appended table 19	P
	Socket-outlets tested using a test plug with brass pins having the minimum specified dimensions		P
	Plugs tested with clamping units having dimensions specified in Figure 44 fitted on each live pin and earthing pin, if any		N/A
	Plugs having lateral earthing contacts and resilient earthing contacts tested using a fixed socket-outlet complying with the standard and having as near to-average characteristics as can be selected, but with minimum size of the earthing pin, if any		N/A
20	BREAKING CAPACITY (S.S. III CEE 7)		
	Accessories have adequate breaking capacity		P
	Compliance checked by testing:		
	- socket-outlets;	See appended table 20	P
	- plugs with pins which are not solid	See appended table 20	N/A
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		N/A
	During the test: no sustained arcing occur		P
	After the test:		
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P
21	NORMAL OPERATION (S.S. III CEE 7)		

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Clause	Requirement + Test	Result - Remark	Verdict
	Accessories withstand without excessive wear or other harmful effect, the mechanical, electrical and thermal stresses occurring in normal use		P
	Compliance checked by testing:		
	- socket-outlets;	See appended table 21	P
	- plugs with resilient earthing socket-contacts;	See appended table 21	N/A
	- plugs with pins which are not solid	See appended table 21	N/A
	Test performed according to the procedure specified in Figure 43; point of Figure 43 at which the test program has begun (1, 2, 3)		—
	Test current passed:		
	- during each insertion and withdrawal of the plug ($I_n \leq 16A$)		P
	- during alternate insertion and withdrawal, the other insertion and withdrawal being made without current flowing ($I_n > 16A$)		N/A
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		N/A
	During the test: no sustained arcing occur		P
	After the test the specimens do not show:		
	- wear impairing their further use;		P
	- deterioration of enclosures, insulating lining or barriers;		P
	- damage to the entry holes for the pins, that might impair proper working;		P
	- loosening of electrical or mechanical connections;		P
	- seepage of sealing compound		P
	Shuttered socket-outlets: gauges of figure 9 and 10 applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces	See appended table 21	P
	Temperature-rise test (requirements of clause 19)	See appended table 21	P
	Electric strength (sub-clause 17.2)	See appended table 21	P
	Pins which are not solid: test according to 14.2		N/A
22	FORCE NECESSARY TO WITHDRAW THE PLUG	(S.S. III CEE 7)	
	Construction of accessory does allow the easy insertion and withdrawal of the plug, and prevent the plug from working out of the socket-outlet in normal use		P

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Clause	Requirement + Test	Result - Remark	Verdict
22.1	Verification of the maximum withdrawal force	See appended table 22	P
22.2	Verification of the minimum withdrawal force	See appended table 22	P
23	FLEXIBLE CABLES AND THEIR CONNECTIONS		N/A
24	MECHANICAL STRENGTH		*
	Accessories, surface mounting boxes, screwed glands and shrouds have adequate mechanical strength		P
24.1	Fixed socket-outlets, portable multiple socket-outlets and surface-type mounting boxes: impact test (apparatus shown in fig. 22, 23, 24 and 25)	See appended table 24.1	P
	After the test: no damage, live parts no become accessible		P
24.2	Portable single socket-outlets and plugs: subjected to test Ed: Free fall, procedure 2 of IEC 60068-2-32 (tumbling barrel); number of falls		N/A
	After the test:		
	- no part become detached or loosened;		N/A
	- pins no become so deformed that the plug cannot be introduced into a socket-outlet and also fails to comply with the requirements of 9.1 and 10.3;		N/A
	- pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction		N/A
24.3	Bases of surface-type socket-outlets: first fixed to a cylinder of rigid steel sheet and then fixed to a flat steel sheet		
	During and after the tests: no damage		N/A
24.4	Portable single socket-outlets, multiple socket-outlets and plugs (elastomeric or thermoplastic material): impact test, weight (1000 ± 2) g, height 100 mm (apparatus shown in fig. 27)		
	Specimens placed in a freezer at (-15 °C ± 2) °C for at least 16 h. After the test: no damage		N/A
24.5	Portable single socket-outlets and plugs (elastomeric or thermoplastic material): compression test, 300 N for 1 min, position a) and b) (apparatus shown in fig. 8)		
	After the test: no damage		N/A
24.6	Screwed glands of accessories having IP>20: torque test (1 min)		
	- diameter of test rod (mm)	-	—
	- type of material (metal / moulded)	-	—
	- torque (Nm)	-	—
	After the test: no damage of glands and enclosures of the specimens		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
24.7	Plug pins provided with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 28)		
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		N/A
24.8	Shuttered socket-outlets: mechanical test carried out on specimens submitted to the normal operation test according to clause 21		
	Force (40 N / 75 N) applied for 1 min against the shutter of an entry hole by means of one pin (N) :	40 N / 75 N	—
	Pin did not come in contact with live parts		P
	After the test: no damage		P
24.9	Mechanical test for multiple portable socket-outlet: 8 falls on concrete floor with the specimens arranged as shown in figure 29		
	Rewirable multiple socket-outlets: flexible cable of the smallest cross-sectional area specified in table 3		—
	After the test: no damage, no part have become detached or loosened		N/A
	Accessories having IP>X0 submitted again to the tests as specified in 16.2		N/A
24.10	Plugs: pull test to verify the fixation of pins in the body of the plug (new specimens)		
	Maximum withdrawal force (table 16) applied for 1 min on each pin in turn, after the specimen has been placed at $(70 \pm 2) ^\circ\text{C}$ for 1 h (N)		—
	After the test: displacement of pins in the body of the plug ≤ 1 mm (mm)		N/A
24.11	Barriers of portable socket-outlets having means for suspension on a mounting surface:		
	Force applied for 10 s against the barrier by means of a cylindrical steel rod (1,5 times the maximum plug withdrawal force in 22.1, table 16) (N)		—
	Rod did not pierce the barrier		N/A
24.12	Portable socket-outlets having means for suspension on a mounting surface (pull test):		
	Pull applied to the supply flexible cable for 10 s (force prescribed in 23.2 for checking the flexible cable anchorage) (N)		—
	During the test: no break of the means for suspension on a mounting surface		N/A
24.13	Portable socket-outlets having means for suspension on a mounting surface (pull test):		

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Clause	Requirement + Test	Result - Remark	Verdict
	Pull applied to the engagement face of the socket-outlet for 10 s (maximum withdrawal force specified, for the corresponding plug, in table 16) (N)		—
	During the test: no break of the means for suspension on a mounting surface		N/A
24.14	Forces necessary to retain or remove covers, cover-plates or parts of them (accessibility with the test finger to live parts)		N/A
24.15	Force necessary for covers or cover-plates to come off or not to come off (accessibility with the test finger to non-earthed metal parts separated from live parts by creepage distances and clearances according to table 23)		N/A
24.16	Force necessary for covers or cover-plates to come off or not to come off (accessibility to insulating parts, earthed metal parts, live parts of SELV ≤ 25 V a.c. or metal parts separated from live parts by creepage distances twice those according to table 23)		N/A
24.17	Test with gauge of figure 7 applied according to figure 9 for verification of the outline of covers or cover-plates: distances between face C of gauge and outline of side under test, not decrease	complying / not complying	—
24.18	Test with gauge according to figure 5 applied as shown in figure 11 (1 N): gauge not enter more than 1mm	complying / not complying	—
24.19	Shroud of portable socket-outlets: compression test (20 ± 2) N at (25 ± 5) °C by means of the apparatus shown in figure 38		
	After 1 min and while the shrouds are still under pressure the dimensions did comply with the appropriate standard sheet		N/A
	Test repeated with the specimen rotated 90 °		N/A
25	RESISTANCE TO HEAT		*
25.1	Specimens kept for 1 h in a heating cabinet at (100 ± 2) °C for 1 h		
	During the test: no change impairing their further use and sealing compound, if any, not flow		P
	After the test:		
	- no access to live parts with probe B of IEC 61032 applied with a force not exceeding 5 N		P
	- markings still legible		P
25.2	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone, 2 mm wide, surrounding the phase and neutral pin entry holes: ball-pressure test at (125 ± 2)°C for 1 h	See appended table 25.2	P

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Clause	Requirement + Test	Result - Remark	Verdict
25.3	Parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)	See appended table 25.3	N/A
25.4	Portable accessories: compression test (20 N) at $(80 \pm 2)^{\circ}\text{C}$ for 1 h by means of the apparatus shown in figure 38		
	After the test: no damage		N/A

26	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		
26.1	Connections withstand mechanical stresses		P
	Thread-forming or thread-cutting screws used only if supplied together with the piece in which they are intended to be inserted		N/A
	Thread-cutting screws intended to be used during installation: captive		N/A
	Screws and nuts which transmit contact pressure: in engagement with a metal thread		N/A
	Threaded part torque test		N/A
26.2	Screws in engagement with a thread of insulating material: correct introduction into the screw hole or nut ensured		N/A
26.3	Contact pressure: not transmitted through insulating material other than ceramic, pure mica or other material no less suitable unless there is sufficient resiliency in metallic parts		P
	Connections made by insulation piercing of tinsel cord reliable		N/A
26.4	Screws and rivets locked against loosening and/or turning		N/A
26.5	Current-carrying parts (including earthing terminals) have mechanical strength, electrical conductivity and resistance to corrosion adequate:		
	- copper;		N/A
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;		P
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N/A
	- steel with electroplated coating of zinc (ISO 2081): service condition ISO no. (1/2/3); IP (X0/X4/X5); thickness (μm) :		N/A
	- steel with electroplated coating of nickel and chromium (ISO 1456): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (μm) :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- steel with electroplated coating of tin (ISO 2093): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm)		N/A
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		P
	Metals having a great difference of electrochemical potential: not used in contact with each other		N/A
26.6	Contacts subjected to a sliding action are of metal resistant to corrosion		P
26.7	Thread-forming screws and thread-cutting screws are not used for the connection of current-carrying parts		N/A
	Thread-forming screws and thread-cutting screws used to provide earthing connection: it is not necessary to disturb the connection and at least two screws are used for each connection		N/A
27	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		*
27.1	Creepage distances, clearances and distances through sealing compound are not less than the values shown in table 23	See appended table 27.1	P
27.2	Insulating sealing compound does not protrude above the edge of the cavity in which it is contained		N/A
27.3	Surface-type socket-outlets do not have bare current-carrying strips at the back		N/A
28	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING		
28.1	Resistance to abnormal heat and to fire		
28.1.1	Glow-wire test according to IEC 60695-2-10 and IEC 60695-2-11	See appended table 28.1.1	P
28.1.2	Plugs with pins provided with insulating sleeves:		
	Test temperature maintained for 3 h by means of the apparatus shown in figure 40 at (120 ± 5) °C / (180 ± 5) °C	-	—
	Impact test according to sub-clause 30.4 (mass 100 g, height 100 mm, 4 impacts): no cracks of the insulating sleeves		N/A
28.2	Resistance to tracking		
	Parts of insulating material retaining live parts in position of accessories having IP>X0: of material resistant to tracking		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Tracking test at 175 V with solution A of IEC 60112		N/A
29	RESISTANCE TO RUSTING		
	Ferrous parts protected against rusting		P
	Test made after having removed all grease using a suitable degreasing agent: 10 min 10 % solution of ammonium chloride, 10 min in a box with air saturated with moisture and 10 min at $(100 \pm 5) ^\circ\text{C}$:		
	No signs of rust		P
30	ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES		N/A

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Clause	Requirement + Test			Result - Remark	Verdict	
12.2.5	TABLE: test with apparatus shown in figure 11 (screw-type terminals)					
	rated current (A)			16 A	—	
	type of conductors			rigid conductors	—	
	smallest/largest cross-sectional area per table 3 (mm ²)			1,5 mm ² / 2,5 mm ²	—	
	number of conductors			2	—	
	nominal diameter of thread (mm); torque per table 6 (Nm)			3,4 mm; 0,8 Nm	—	
Cross-sectional area (mm ²)		Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Remarks	Verdict
1,5 mm ²		6,5 mm	260 mm	0,4 kg	—	P
2,5 mm ²		9,5 mm	280 mm	0,7 kg	—	P
Supplementary information: –						

12.2.6	TABLE: pull test (screw-type terminals)					
	rated current (A)		16 A		—	
	smallest/largest cross-sectional area per table 3 (mm ²)		1,5 mm ² / 2,5 mm ²		—	
	nominal diameter of thread (mm); torque 2/3 per table 6 (Nm)		3,4 mm; 0,53 Nm		—	
Cross-sectional area (mm ²)	Number of conductors	Type of conductors (rigid solid / rigid stranded / flexible)	Pull per table 4 applied for 1 min (N)	Remarks	Verdict	
1,5 mm ²	2	rigid conductors	40 N	–	P	
2,5 mm ²	2	rigid conductors	50 N	–	P	
Supplementary information: –						

12.2.7	TABLE: tightening test (screw-type terminals)					
	rated current (A)				16 A	—
	nominal diameter of thread (mm); torque 2/3 per table 6 (Nm).....				3,4 mm; 0,53 Nm	—
Largest cross-sectional area per table 3 (mm ²)	Permissible number of conductors ⁽¹⁾	Type of conductors (rigid solid / rigid stranded / flexible)		Number of wires and nominal diameter of wires per table 5	Remarks	Verdict
2,5 mm ²	2	rigid conductors		1 × 1,78	—	P
Supplementary information:						
⁽¹⁾ – Terminals intended for looping-in 2 or 3 conductors						

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Clause	Requirement + Test	Result - Remark	Verdict

17.1	TABLE: insulation resistance		
Item per 17.1.1	test voltage applied between:	measured (MΩ)	required (MΩ)
a)	Between all poles connected together and the body	> 5	> 5
b)	Between each pole in turn and all others connected to the body	> 5	> 5
supplementary information:			

17.2	TABLE: electric strength		
	rated voltage (V)	250 V	—
item per 17.1.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)
a)	Between all poles connected together and the body	2000	No
b)	Between each pole in turn and all others connected to the body	2000	No
supplementary information:			

19	TABLE: temperature rise test (S.S. III CEE 7)						
	rated current of accessory (A)		16 A		—		
	type of accessory (non-rewirable / rewirable)		rewirable		—		
	nominal cross-sectional area per table 15 (mm ²) (rewirable accessories) / type of conductor		2,5 mm ²		—		
	type of conductors (rigid solid / rigid stranded / flexible) (rewirable accessories)		rigid solid		—		
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories)		3,4 mm ; 0,53 Nm		—		
specimen	type of flexible cable ⁽¹⁾	number of conductors and nominal cross-sectional area (mm ²) ⁽¹⁾	test circuit (L-L/L-N/L-E)	test current (table 20) for 1 h (A)	measured dT (K)	allowed dT (K)	temperature rise of external parts of insulating material (25.3)
M	-	-	L-L / L-E	22	25,7	45	8,6
N	-	-	L-L / L-E	22	36,4	45	8,7
O	-	-	L-L / L-E	22	34,6	45	8,4
supplementary information:							
⁽¹⁾ Non-rewirable accessories							

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Clause	Requirement + Test				Result - Remark			Verdict	
20	TABLE: breaking capacity (S.S. III CEE 7)								
	rating of accessory (A/V)				16 A / 250 V			—	
	type of accessory (non-rewirable / rewirable)				rewirable			—	
	type of flexible cable (non-rewirable accessories) ..				--			—	
	number of conductors and nominal cross-sectional area (mm ²) (non-rewirable accessories)				--			—	
	nominal cross-sectional area per table 15 (mm ²) (rewirable accessories) / type of conductor				2,5 mm ²			—	
	type of conductors (rigid solid / rigid stranded / flexible) (rewirable accessories)				Rigid solid			—	
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories)				3,4 mm ; 0,53 Nm			—	
	rate of operation (strokes per minute)				30			—	
specimen	test plug (for each type and current rating of socket-outlet)		test voltage (1,1 V _n) (V)	test current (1,25 I _n) cos φ 0,6 (A)	number of strokes (plugs only)	number of strokes, with shutters – with current ⁽¹⁾	number of strokes, without shutters – with current ⁽²⁾	remarks	
	pin dimensions (mm)	pin spacing (mm)							
M	4,8	19	275	20	-	-	100	P	
N	4,8	19	275	20	-	-	100	P	
O	4,8	19	275	20	-	-	100	P	
supplementary information:									
⁽¹⁾ starting point 1 or 3 of Figure 43									
⁽²⁾ starting point 2 of Figure 43									

21	TABLE: normal operation (S.S. III CEE 7)								
	rating of accessory (A/V)				16 A / 250 V			—	
	type of accessory (non-rewirable / rewirable)				rewirable			—	
	type of flexible cable (non-rewirable accessories)				--			—	
	number of conductors and nominal cross-sectional area (mm ²) (non-rewirable accessories)				--			—	
	nominal cross-sectional area per table 15 (mm ²) (rewirable accessories) / type of conductor				2,5 mm ²			—	
	type of conductors (rigid solid / rigid stranded / flexible) (rewirable accessories)				Rigid solid			—	
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories)				3,4 mm ; 0,53 Nm			—	
	rate of operation (strokes per minute)				30			—	

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Clause	Requirement + Test				Result - Remark				Verdict
specimen	test plug (for each type and current rating of socket-outlet)		test voltage (Vn) (V)	test current (table 20), cos φ 0,8 (A)	number of strokes (plugs only)	number of strokes, with shutters – with current ⁽¹⁾	number of strokes, without shutters – with current ⁽²⁾	number of strokes, with shutters – without current ⁽³⁾	
	pin dimensions (mm)	pin spacing (mm)							
M	4,8	19	250	16	--	--	10000	--	P
N	4,8	19	250	16	--	--	10000	--	P
O	4,8	19	250	16	--	--	10000	--	P
A	4,8	19	--	--	--	--	--	10000	P
B	4,8	19	--	--	--	--	--	10000	P
C	4,8	19	--	--	--	--	--	10000	P
TABLE: test for shuttered socket-outlets									
specimen	Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions				Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions				
A	P				P				P
B	P				P				P
C	P				P				P
19	TABLE: temperature rise test								
specimen	test circuit (L-L/L-N/L-E)		test current (table 20 for clause 21) for 1 h (A)		measured dT (K)		allowed dT (K)		
M	L-L / L-E		16		Max 18,6		45		P
N	L-L / L-E		16		Max 31,6		45		P
O	L-L / L-E		16		Max 21,7		45		P
17.2	TABLE: electric strength								
specimen	item per 17.1	test voltage applied between:			test voltage (V)		flashover / breakdown (Yes/No)		
A	a)	Between all poles connected together and the body			1500		N		
B	b)	Between each pole in turn and all others connected to the body			1500		N		
C									
supplementary information:									
⁽¹⁾ starting point 1 or 3 of Figure 43									
⁽²⁾ starting point 2 of Figure 43									
⁽³⁾ starting point 1 or 2 of Figure 43									

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Clause	Requirement + Test			Result - Remark	Verdict
22	TABLE: force necessary to withdraw the plug (S.S. III CEE 7)				
	Rated current (A) :			16 A	—
	Number of poles :			3	—
22.1	Verification of the maximum withdrawal force				
specimen	socket-outlets (multi-pin gauge)		plugs with resilient earthing contact assemblies (single-pin gauge)		
	maximum withdrawal force (N)	the test plug did not remain in the socket-outlet (Y/N)	maximum withdrawal force (N)	the test pin gauge did not remain in the contact assembly	
M	54	Y	--	--	P
N	54	Y	--	--	P
O	54	Y	--	--	P
22.2	Verification of the minimum withdrawal force				
specimen	socket-outlets (single-pin gauge)		plugs with resilient earthing contact assemblies (single-pin gauge)		
	minimum withdrawal force (N)	the test pin gauge did not fall from each individual contact-assembly within 30 s (Y/N)	minimum withdrawal force (N)	the test pin gauge did not fall from each individual earthing contact-assembly within 30 s (Y/N)	
M	2	Y	--	--	P
N	2	Y	--	--	P
O	2	Y	--	--	P
supplementary information:					
23.2	TABLE: pull and torque test				N/A
23.4	TABLE: flexing test				N/A
24.1	TABLE: impact test				
part of enclosure tested per table 21 (A, B, C, D)		blows per part	height of fall (mm)	comments	
A		5	100	P	
supplementary information:					
25.2	TABLE: ball pressure test of insulating materials				
	allowed impression diameter (mm) :			≤ 2 mm	—

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Clause	Requirement + Test	Result - Remark	Verdict
part under test		test temperature (°C)	impression diameter (mm)
Base (transparent black colour for all articles)		125	Max 1,5
Frontal Part (white colour for 4B.N.H21.XL – 4B.AM.H21.XL – 4B.V14.H21.XL)		125	Max 1,6
Frontal Part (Anthracite colour for 4B.L.H21.XL)		125	Max 1,5
Frontal Part (Tec colour for 4B.NT.H21.XL)		125	Max 1,6
support shutter		125	Max 1,5
supplementary information:			

25.3	TABLE: ball pressure test of insulating materials		N/A
	allowed impression diameter (mm)	≤ 2 mm	—
part under test		test temperature (°C) ⁽¹⁾	impression diameter (mm)
--		--	--
supplementary information: ⁽¹⁾ (70 ± 2) °C / (40 ± 2) °C + highest temperature rise determined during the test of clause 19			

26.1	TABLE: threaded part torque test					
threaded part identification		diameter of thread (mm)	column number (1, 2 or 3)	applied torque (Nm)	times (5/10)	no damage
terminals		3,4	II	0,8	5	P
supplementary information:						

27.1	TABLE: creepage distances, clearances and distances through sealing compound						
	rated voltage (V)			250 V			—
item per table 23	creepage distance dcr, clearance cl and distance through sealing compound dtsc at/of:	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	required dtsc (mm)	dtsc (mm)
1 / 6	Between live parts of different polarity	≥ 3	> 3	≥ 3	> 3	--	--
2 / 7	between live parts and accessible surface of parts of insulating material	≥ 3	3	≥ 3	3	--	--
supplementary information:							

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Clause	Requirement + Test			Result - Remark	Verdict
28.1.1	TABLE: glow-wire test				
part under test	material designation	test temperature (°C)	visible flame and sustained glowing (Y/N)	flame and glowing extinction time	ignition of the tissue paper (Y/N)
Base (transparent black colour)	-	850	Y	10 sec	N
Shutter support	-	850	Y	5 sec	N
Frontal Part (white colour for 4B.N.H21.XL – 4B.AM.H21.XL – 4B.V14.H21.XL)	-	650	Y	0 sec	N
Frontal Part (Anthracite colour for 4B.L.H21.XL)	-	650	Y	25 sec	N
Frontal Part (Tec colour for 4B.NT.H21.XL)	-	650	Y	0 sec	N
Shutters (black and white colour)	-	650	N	0 sec	N
supplementary information:					
28.2	TABLE: resistance to tracking				N/A

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Clause	Requirement + Test	Result - Remark	Verdict

<p align="center">ATTACHMENT TO TEST REPORT IEC 60884-1 ITALIAN NATIONAL DIFFERENCES Plugs and socket-outlets for household and similar purposes Part 1: General requirements</p>			
Differences according to: CEI 23-50:2007 + V1:2008 + V2:2011			
Attachment Form No.: IT_ND_IEC60884_1C_II			
Attachment Originator: IMQ			
Master Attachment: Date 2011-12			
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	NATIONAL DIFFERENCES	
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7	CLASSIFICATION	
7.2.1	Replace:	
	Socket-outlets: have increased protection	P
7.2.2	Replace:	
	Socket-outlets: provided with shutters	P
7.2.101	Add:	
	Type of possible receptivity: <u>single</u> / <u>multiple</u>	P
7.3	Add:	
	Class of appliance (class 0 not admitted): I / II	N/A

8	MARKING	
8.3	Replace:	
	Cover plates necessary for safety purposes and intended to be sold separately: marked with the manufacturer's or responsible vendor's name; the type reference may be put on the smallest package unit	N/A

9	CHECKING OF DIMENSIONS (This paragraph refers only to socket outlets S.S. P17 / 11 with single body)	
9.1	Replace the first paragraph:	
	Accessories comply with the appropriate standard sheets	P
	Plugs:	
	S10 (2P 10A 250V~)	N/A

IEC 60884-1 ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	S11 (2P+T 10A 250V~)		N/A
	S16 (2P 16A 250V~)		N/A
	S17 (2P+T 16A 250V~)		N/A
	S30 (2P+T 16A 250V~)		N/A
	S31 (2P+T+T 16A 250V~)		N/A
	S32 (2P 16A 250V~, maximum outline)		N/A
	S32 (2P 16A 250V~, minimum outline)		N/A
	SPA11 (2P+T 10A 250V~)		N/A
	SPB11 (2P+T 10A 250V~)		N/A
	SPA17 (2P+T 16A 250V~)		N/A
	SPB17 (2P+T 16A 250V~)		N/A
	Socket-outlets:		
	P10 (2P 10A 250V~, portable type or for appliances)		N/A
	P11 (2P+T 10A 250V~)		N/A
	P17 (2P+T 16A 250V~)		N/A
	P17/11 (2P+T multiple receptivity 16A 250V~)		P
	P30 (2P+T+T multiple receptivity 16A 250V~)		N/A
	Add after the fourth paragraph:		
	Plugs according to standard sheets S30, S31, S32: coupling with socket outlet P30 checked by:		
	- gauge C7 (ex CEI UNEL 09321-64 B)		N/A
	- gauge C8 (ex CEI UNEL 09323-64 B)		N/A
	- gauge C10 (ex CEI UNEL 09336-64)		N/A
	Add after the last paragraph:		P
	Socket-outlets according to standard sheets P10, P11, P17/11, P30: easy insertion and withdrawal of plugs complying with Standard CEI EN 50075		P
	Socket-outlets according to standard sheets P11, P17, P17/11 with rim or recess and socket-outlets according to standard sheet P30: simultaneous contact on live socket-contact by plug complying with standard sheet SPA11, SPB11, SPA17, SPB17 not possible; checked by:		
	- gauge A (standard sheet C2)		N/A
	- gauge B (standard sheet C2)		N/A
9.2	Amendment:		
	Plugs for class 0 appliances: not admitted		N/A
	Add:		

IEC 60884-1 ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
9.2.101	Multiple receptivity socket-outlets according to standard sheets P17/11: plugs complying to standard sheets S30, S31 and S32 do not make contact with live socket-contact; checked by:		
	Gauge according to standard sheets C12 applied to the pins entry holes with force of 150 N for 1 min; depth not greater than 3 mm (mm): - max 1mm		P
9.3	Add:		
	Accessories with variable configuration of part relevant to connection (for example distance and diameter of pins): not admitted		N/A
10	PROTECTION AGAINST ELECTRIC SHOCK		
10.3	Replace:		
	Contact between a pin of a plug and a live socket-contact of a socket-outlet while any other pin is accessible: not possible		P
	A gauge having the dimensions given in subclause 22.1, is applied with a force of 75 N for 1 min, maintaining it perpendicular to the front surface of the socket-outlet:		
	- one live pins of the gauge is positioned against one entry hole of live socket-contacts of socket-outlet under test: it is not possible to make an electrical contact between the live socket-contacts of the socket-outlet and the pins of the gauge		P
	- one live pins and the earthing pin of the gauge is positioned against two entry holes of socket-contacts such as the live pin is positioned on the hole of earthing socket-contact and the earthing pin is positioned on the hole of live socket-contact: it is not possible to make an electrical contact between the live socket-contacts of the socket-outlet and the pins of the gauge		P
10.101	Add:		
	Plugs: live parts not accessible		N/A
	Test wire of 1 mm diameter (figure 10) applied with a force of 1 N on all accessible surfaces of plugs inserted in the relevant socket-outlets does not touch live parts		N/A
	Accessories with electrometric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		N/A
11	PROVISION FOR EARTHING		
11.2	Delete modification introduced by CEI 23-50 V1:2008.		P

IEC 60884-1 ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
12	TERMINALS AND TERMINATIONS		
12.1.1	Add:		
	Note: socket-outlets for appliances may be provided with male tabs of flat-quick connect terminations (under consideration)		N/A
12.1.2	Replace the last sentence of the first paragraph:		
	Screw-type terminals, screwless terminals, flat-quick connect terminations, insulation-piercing clamping units or similar connections: not admitted in non-rewirable accessories		N/A
12.1.2	Delete modification introduced by CEI 23-50 V1:2008.		
12.2	Looping-in of three conductors of 2.5 mm ² or two conductors of 4 mm ² is not required for 16 A, 2P and 2P+E fixed socket-outlets (Table 3)		N/A
12.3	Add:		
	Screwless terminals: used in fixed socket-outlets only		N/A
13	CONSTRUCTION OF FIXED SOCKET-OUTLETS		
13.4	Replace the note with the following requirements:		
	The last requirement is considered to be fulfilled if live parts do not protrude from an imaginary plane surface obtained moving a straight rigid wire laid with continuity on all surfaces of the base		P
14	CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OUTLETS		
14.21	Delete Note 1 and Note 2:		
	Rewirable plugs for class II equipment and cord extension sets for equipment of class II are allowed		N/A
14.23.2	Add:		
	after the words "is pivoted about a horizontal axis" the words "or vertical"		N/A
16	RESISTANCE TO AGEING, PROTECTION PROVIDED BY ENCLOSURES, AND RESISTANCE TO HUMIDITY		
	Add after the fifth paragraph:		
16.1	Portable socket-outlets:		

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Clause	Requirement + Test	Result - Remark	Verdict
	- test plug complying to this Standard inserted into the socket-outlets		N/A
	- test plug complying with appropriate standard sheet found on the market inserted into the socket-outlets		N/A
	Portable socket-outlet provided with covers: when test plug inserted into the socket-outlets the cover is closed		N/A
	After the test:		
	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N)		—
	The plug not fall from each individual contact-assembly within 30 s		N/A
18	OPERATION OF EARTHING CONTACTS		
	Add (type P30 socket-outlets):		
	Checked by measuring the force exerted by the side earthing contacts by means of the device shown in Figure 101:		
	The average value of the forces necessary to move each contact to the indicated position is ≥ 5 N (N)		N/A
19	TEMPERATURE RISE (for socket-outlet S.S. P17/11 double body)		
	Amendment (plug):		
	Plugs tested with clamping units having dimensions specified in Figure 44 (modified) fitted on each live pin and earthing pin, if any		N/A
	Add (multiple receptivity socket-outlets):		
	Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets (P11)		
	Test current as specified in table 20 passed for 1 h (A)	16 A	—
	Temperature rise of terminals not exceed 45 K	max -20,6 K	P
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K)	max -K	N/A
	- the earthing contact, if any, and the nearest phase contact (K)	max - 20,1 K	P

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Clause	Requirement + Test	Result - Remark	Verdict
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K): max - 5 K		P
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets (P17)</i>		
	Test current as specified in table 20 passed for 1 h (A): 22 A		—
	Temperature rise of terminals not exceed 45 K: max -39,5 K		P
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K): max - K		N/A
	- the earthing contact, if any, and the nearest phase contact (K): max - 38,5 K		P
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K): max -7 K		P

20	BREAKING CAPACITY (for socket-outlet S.S. P17/11 double body)		
	Add (multiple receptivity socket-outlets):		
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets</i>		
	100 strokes; 30 strokes per minute; 275 V; 12,5 A; $\cos \varphi$ 0,6		P
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets</i>		
	100 strokes; 30 strokes per minute; 275 V; 20 A; $\cos \varphi$ 0,6		P
	<i>Set of three samples (STU) without shutters, submitted to the test expected for 10 and 16 A socket-outlets</i>		
	50 strokes; 30 strokes per minute; 275 V; 12,5 A; $\cos \varphi$ 0,6	P11	P
	50 strokes; 30 strokes per minute; 275 V; 20 A; $\cos \varphi$ 0,6	P17	P
	During the test: no sustained arcing occur		P
	After the test:		
	- specimens show no damage impairing their further use;		P

IEC 60884-1 ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	- entry holes for the pins not show any damage which may impair the safety		P
21	NORMAL OPERATION (for socket-outlet S.S. P17/11 double body)		
	Add (multiple receptivity socket-outlets):		
	<i>Set of three samples (ABC) with shutters, submitted to the test expected for 10 A socket-outlets (P11)</i>		
	10000 strokes without current carried out with 10 A test plug		P
	After the test the following gauges applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces:		
	- Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		P
	- Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		P
	<i>Set of three samples (JKL) with shutters, submitted to the test expected for 16 A socket-outlets (P17)</i>		
	10000 strokes without current carried out with 16 A test plug		P
	After the test the following gauges applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces:		
	- Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		P
	- Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		P
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets</i>		
	10000 strokes; 30 strokes per minute; 250 V; 10 A; $\cos \varphi$ 0,8		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 10 A):		
	Temperature rise of terminals not exceed 45 K: max – 19,2 K		P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K): max - K		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	the earthing contact, if any, and the nearest phase contact (K): max – 12,7 K		P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V): 1000 V / 1500 V		P
	b) test voltage (V): 1000 V / 1500 V		P
	c) test voltage (V): 1000 V / 1500 V		N/A
	d) test voltage (V): 1000 V / 1500 V		N/A
	e) test voltage (V): 1000 V / 1500 V		N/A
	During the test: no flashover or breakdown		N/A
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets</i>		
	10000 strokes; 30 strokes per minute; 250 V; 16 A; cos φ 0,8		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 16 A):		
	Temperature rise of terminals not exceed 45 K: max – 26,4 K		P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K): max - K		N/A
	the earthing contact, if any, and the nearest phase contact (K): max -25,1 K		P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V): 1000 V / 1500 V		P
	b) test voltage (V): 1000 V / 1500 V		P
	c) test voltage (V): 1000 V / 1500 V		N/A
	d) test voltage (V): 1000 V / 1500 V		N/A
	e) test voltage (V): 1000 V / 1500 V		N/A
	During the test: no flashover or breakdown		N/A
	<i>Set of three samples (STU) without shutters, submitted to the test expected for 10 and 16 A socket-outlets (P17/11)</i>		
	4000 strokes; 30 strokes per minute; 250 V; 10 A; cos φ 0,8		P
	6000 strokes; 30 stroke per minute; 250 V; 16 A; cos φ 0,8		P

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Clause	Requirement + Test	Result - Remark	Verdict

	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 10 A):		
	Temperature rise of terminals not exceed 45 K	max – 9,9 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K)	max - K	N/A
	the earthing contact, if any, and the nearest phase contact (K)	max – 11,4 K	P
	Temperature-rise test (requirements of clause 19, test current: 16 A):		
	Temperature rise of terminals not exceed 45 K	max – 32,1 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K)	max - K	N/A
	the earthing contact, if any, and the nearest phase contact (K)	max – 30,0 K	P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V)	1000 V / 1500 V	P
	b) test voltage (V)	1000 V / 1500 V	P
	c) test voltage (V)	1000 V / 1500 V	N/A
	d) test voltage (V)	1000 V / 1500 V	N/A
	e) test voltage (V)	1000 V / 1500 V	N/A
	During the test: no flashover or breakdown		P

19	TEMPERATURE RISE (for socket-outlet S.S. P17/11 single body)		
	Amendment (plug):		
	Plugs tested with clamping units having dimensions specified in Figure 44 (modified) fitted on each live pin and earthing pin, if any		N/A
	Add (multiple receptivity socket-outlets):		
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets (P11)</i>		
	Test current as specified in table 20 passed for 1 h (A)	16 A	—
	Temperature rise of terminals not exceed 45 K	max -27,9 K	P
	Separate tests made passing the current through:		

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Clause	Requirement + Test	Result - Remark	Verdict
	- the neutral contact, if any, and the adjacent phase contact (K)	max -K	N/A
	- the earthing contact, if any, and the nearest phase contact (K)	max - 23,2 K	P
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K)	max - 6 K	P
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets (P17)</i>		
	Test current as specified in table 20 passed for 1 h (A)	22 A	—
	Temperature rise of terminals not exceed 45 K	max -31,1 K	P
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K)	max - K	N/A
	- the earthing contact, if any, and the nearest phase contact (K)	max - 38,6 K	P
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K)	max -8 K	P

20	BREAKING CAPACITY (for socket-outlet S.S. P17/11 single body)		
	Add (multiple receptivity socket-outlets):		
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets</i>		
	100 strokes; 30 strokes per minute; 275 V; 12,5 A; $\cos \varphi$ 0,6		P
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets</i>		
	100 strokes; 30 strokes per minute; 275 V; 20 A; $\cos \varphi$ 0,6		P
	<i>Set of three samples (STU) without shutters, submitted to the test expected for 10 and 16 A socket-outlets</i>		
	50 strokes; 30 strokes per minute; 275 V; 12,5 A; $\cos \varphi$ 0,6	P11	P
	50 strokes; 30 strokes per minute; 275 V; 20 A; $\cos \varphi$ 0,6	P17	P
	During the test: no sustained arcing occur		P

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Clause	Requirement + Test	Result - Remark	Verdict
	After the test:		
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P
21	NORMAL OPERATION (for socket-outlet S.S. P17/11 single body)		
	Add (multiple receptivity socket-outlets):		
	<i>Set of three samples (ABC) with shutters, submitted to the test expected for 10 A socket-outlets (P11)</i>		
	10000 strokes without current carried out with 10 A test plug		P
	After the test the following gauges applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces:		
	- Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		P
	- Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		P
	<i>Set of three samples (JKL) with shutters, submitted to the test expected for 16 A socket-outlets (P17)</i>		
	10000 strokes without current carried out with 16 A test plug		P
	After the test the following gauges applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces:		
	- Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		P
	- Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		P
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets</i>		
	10000 strokes; 30 strokes per minute; 250 V; 10 A; $\cos \varphi$ 0,8		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 10 A):		
	Temperature rise of terminals not exceed 45 K : max – 13,5 K		P
	Separate tests made passing the current through:		

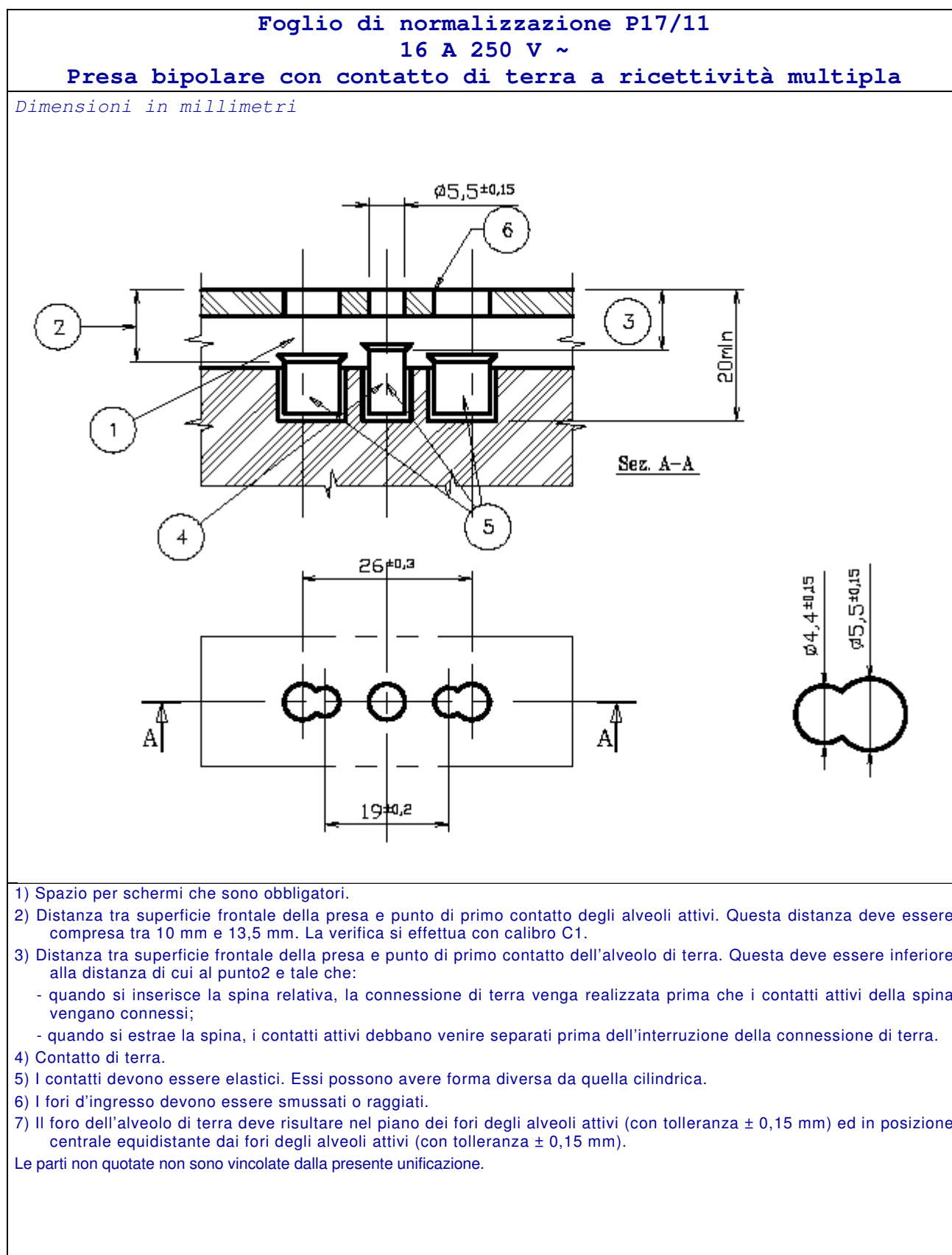
IEC 60884-1 ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	the neutral contact, if any, and the adjacent phase contact (K): max - K		N/A
	the earthing contact, if any, and the nearest phase contact (K): max – 12,0 K		P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V): 1000 V / 1500 V		P
	b) test voltage (V): 1000 V / 1500 V		P
	c) test voltage (V): 1000 V / 1500 V		N/A
	d) test voltage (V): 1000 V / 1500 V		N/A
	e) test voltage (V): 1000 V / 1500 V		N/A
	During the test: no flashover or breakdown		N/A
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets</i>		
	10000 strokes; 30 strokes per minute; 250 V; 16 A; $\cos \varphi$ 0,8		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 16 A):		
	Temperature rise of terminals not exceed 45 K: max – 20,3 K		P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K): max - K		N/A
	the earthing contact, if any, and the nearest phase contact (K): max -23,1 K		P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V): 1000 V / 1500 V		P
	b) test voltage (V): 1000 V / 1500 V		P
	c) test voltage (V): 1000 V / 1500 V		N/A
	d) test voltage (V): 1000 V / 1500 V		N/A
	e) test voltage (V): 1000 V / 1500 V		N/A
	During the test: no flashover or breakdown		N/A
	<i>Set of three samples (STU) without shutters, submitted to the test expected for 10 and 16 A socket-outlets (P17/11)</i>		
	4000 strokes; 30 strokes per minute; 250 V; 10 A; $\cos \varphi$ 0,8		P

IEC 60884-1 ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	6000 strokes; 30 stroke per minute; 250 V; 16 A; $\cos \varphi$ 0,8		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 10 A):		
	Temperature rise of terminals not exceed 45 K:	max – 12,8 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K):	max - K	N/A
	the earthing contact, if any, and the nearest phase contact (K):	max – 13,2K	P
	Temperature-rise test (requirements of clause 19, test current: 16 A):		
	Temperature rise of terminals not exceed 45 K:	max – 21,9 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K):	max - K	N/A
	the earthing contact, if any, and the nearest phase contact (K):	max – 22,6 K	P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V):	1000 V / 1500 V	P
	b) test voltage (V):	1000 V / 1500 V	P
	c) test voltage (V):	1000 V / 1500 V	N/A
	d) test voltage (V):	1000 V / 1500 V	N/A
	e) test voltage (V):	1000 V / 1500 V	N/A
	During the test: no flashover or breakdown		P

22	FORCE NECESSARY TO WITHDRAW THE PLUG		
	Add (multiple receptivity socket-outlets):		
	<i>Set of three samples (MNO) without shutters, submitted to the test conditions expected for 10 A socket-outlets</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm)	- 50 N / -4,06 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter	- 1,5 N / - 3,94 mm	—

IEC 60884-1 ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	(mm)		
	The plug not fall from each individual contact-assembly within 30 s		P
	<i>Set of three samples (PQR) without shutters, submitted to the test conditions expected for 16 A socket-outlets</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm) : - 54 N / - 5,0 mm		—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm) : - 2 N / - 4,9 mm		—
	The plug not fall from each individual contact-assembly within 30 s		P
	<i>Set of three samples (STU) without shutters, submitted to the test conditions expected for 10 and 16 A socket-outlets (P17/11 single and double body)</i>		
	<i>Test conditions expected for 10 A socket-outlets</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm) : - 50 N / - 4,06 mm		—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm) : - 1,5 N / - 3,94 mm		—
	The plug not fall from each individual contact-assembly within 30 s		P
	<i>Test conditions expected for 16 A socket-outlets</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm) : - 54 N / - 5,00 mm		—
	The plug not remain in the socket-outlet		
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm) : - 2 N / - 4,90 mm		—
	The plug not fall from each individual contact-assembly within 30 s		P

IEC 60884-1 ATTACHMENT			
Clause	Requirement + Test		Verdict
24	MECHANICAL STRENGTH		
24.1	Replace the first 6 fifth paragraphs with the following:		
	The specimens are subjected to blows by means of an impact-test apparatus as shown in IEC 60068-2-75 (Eha test), with equivalent mass of 250 g.		P
24.2	Replace the fourth paragraph with the following:		
	Specimens are subjected individually to the test Ec procedure 2 of IEC 60068-2-31, height of fall 500 mm		N/A
24.2	Add:		
	After the test: admitted a further tolerance of -0,2 mm on pins spacing, with exception of those corresponding to standard sheets S30, S31 and S32		N/A
25	RESISTANCE TO HEAT		
25.2	Parts of insulating material of portable accessories necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone of 2 mm wide surrounding the phase and neutral pin entry holes: ball-pressure test at $(125 \pm 2)^{\circ}\text{C}$ for 1 h		
	After the test: diameter of impression ≤ 2 mm: Max $\varnothing = 1,6$ mm		P
26	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		
26.1	Add:		
	Test for screws for fixing covers or cover plates also intended for decorative purposes:		
	- 10 times for screws in engagement with a thread of insulating material and for screws of insulating material		N/A
	- 5 times for all other cases		P
	- screw diameter (mm); torque (Nm): 3,4 mm; 0,8Nm		—
	During the test: no damage impairing the further use of the screwed connections		P

Annex 1: Dimensional checking (Standard sheet P17/11 of Standard CEI 23-50:2007+ V1:2008+ V2:2011) (Italian language)

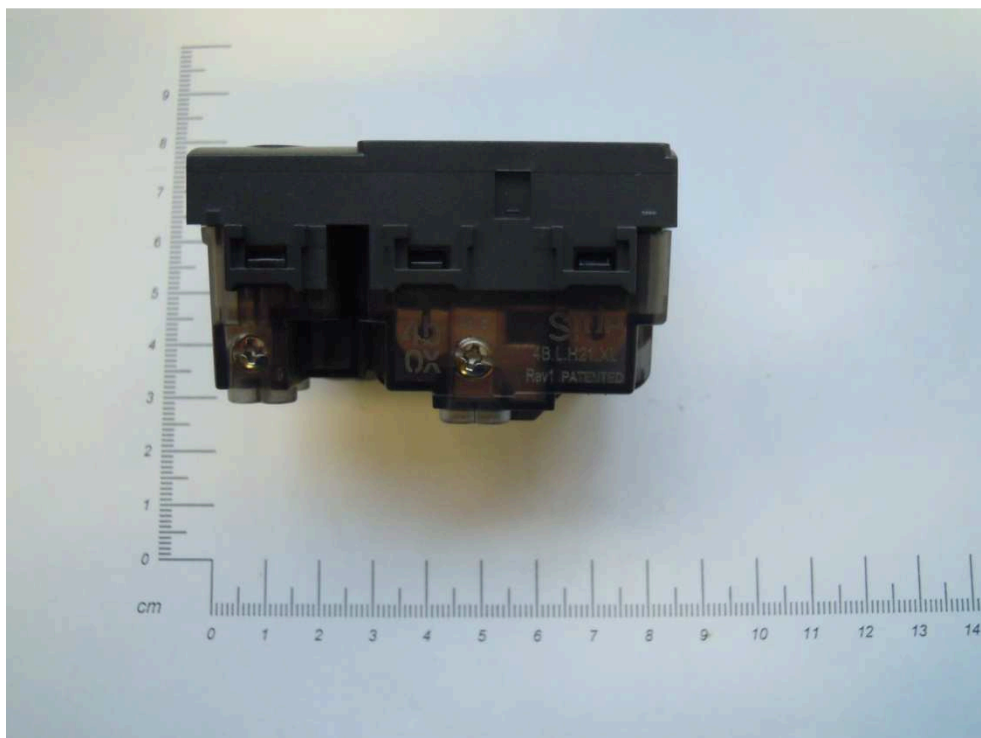
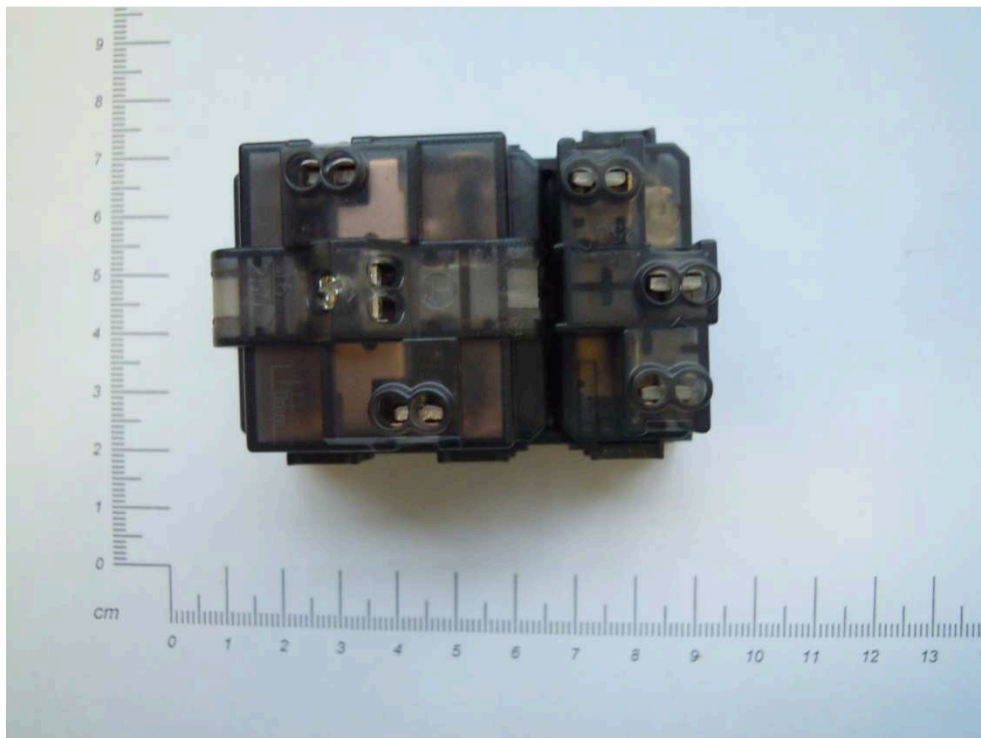
Annex 1: Dimensional checking (Standard sheet P17/11 of Standard CEI 23-50:2007+ V1:2008+ V2:2011) (Italian language)

Punto	Prescrizione	Risultato - Nota	Esito
1	Schermi: obbligatori		P
2	Distanza tra la superficie frontale della presa ed il punto di primo contatto degli alveoli attivi: compresa tra 10 e 13,5 mm (Verifica con il calibro C1)		P
3	Distanza tra la superficie frontale della presa ed il punto di primo contatto dell'alveolo di terra: inferiore a quella di cui al punto 2 in maniera tale che quando si inserisce la spina la connessione di terra venga realizzata prima che i contatti attivi della spina vengano connessi e che, quando si estrae la spina, i contatti attivi vengano separati prima dell'interruzione della connessione di terra.		P
4	Contatto di terra		P
5	Contatti: elastici		P
6	Fori di ingresso: smussati o raggiati	smussati / raggiati	P
7	Foro dell'alveolo di terra:		
	- nel piano dei fori degli alveoli attivi, con tolleranza $\pm 0,15$ mm	Es. 1: 0,1 mm Es. 2: 0,1 mm Es. 3: 0,1 mm	P
	- equidistante dai fori degli alveoli attivi con tolleranza $\pm 0,15$ mm	Es. 1: 5,6 mm Es. 2: 5,6 mm Es. 3: 5,7 mm	P

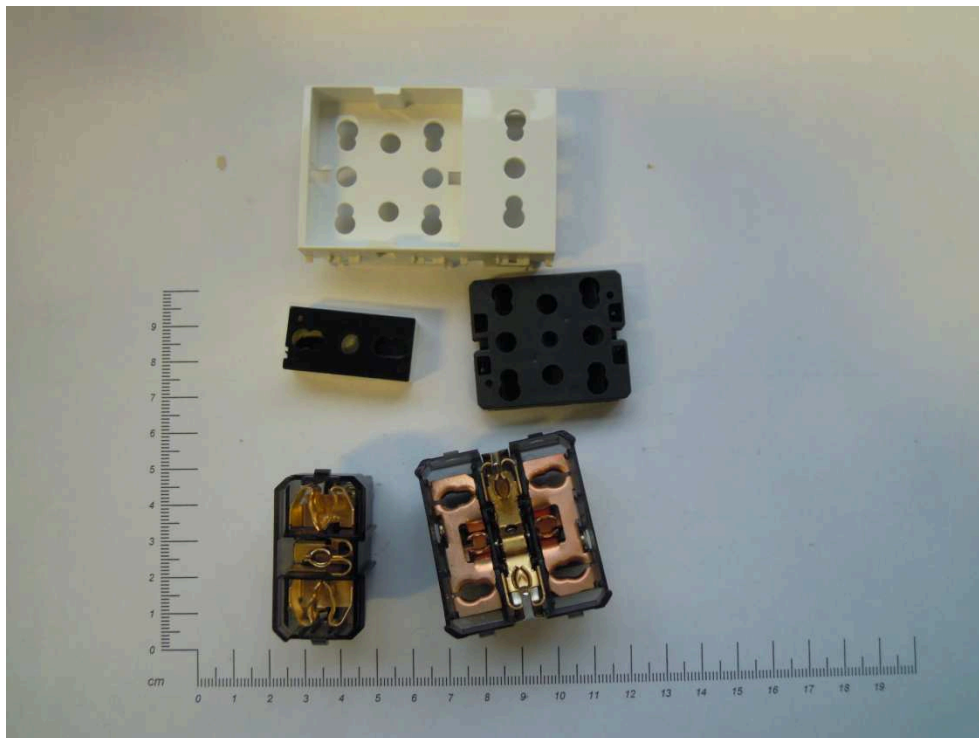
Annex 2: Photographic documentation



Annex 2: Photographic documentation



Annex 2: Photographic documentation



Annex 2: Photographic documentation

